

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for cleaning a stationary gas turbine unit during operation, said wherein

the unit comprising comprises a turbine, a compressor (16) driven by the turbine, the compressor having an inlet (E), an air inlet duct arranged upstream of the air inlet of the compressor, the inlet duct having a part (15) of the duct adjoining the inlet of the compressor and having decreasing cross section in the flow direction in order to give the air flow a final velocity at the inlet (E) to the compressor (16),

the method comprising introducing a spray of cleaning fluid being introduced in the inlet duct (15), characterised in that wherein the cleaning fluid is forced through a spray nozzle (32) with a pressure drop exceeding 120 bar to form a spray, the drops of which have the spray having a mean size that is less than 150 μm , and directing the spray being directed substantially parallel to and in the same direction as the direction of the air flow, and in that introducing the spray is introduced at a position (23) in the duct section (16) where the air velocity is at least 40 per cent of the final velocity at the compressor inlet, (E), so that whereby the drops of the liquid fluid spray acquire a slip ratio of at least 0.8 at the compressor inlet (E).

2. (Currently Amended) A method as claimed in claim 1, characterised in that wherein the fluid spray is established so that a substantial proportion of its drops have a mean size within the interval 50-150 μm .

3. (Currently Amended) A method as claimed in claim 2, characterised in that wherein the fluid spray drops are given a mean size of around 70 μm .

4. (Currently Amended) A method as claimed in claim 3, wherein any one of claims 1-3, characterised in that the fluid spray is established by forcing the cleaning fluid being forced through a spray nozzle with a pressure drop less than 210 Bar.

5. (Currently Amended) A method as claimed in any one of the preceding claims, characterised in that claim 3, wherein the fluid spray is established by forcing the cleaning fluid being forced through a nozzle with a pressure drop of around 140 Bar.

6. (Currently Amended) A method as claimed in any one of the preceding claims, characterised in that claim 1, wherein the fluid spray drops are caused to acquire a slip ratio of at least 0.9 at the compressor inlet.

7. (New) A method as claimed in claim 3, wherein the fluid spray is established by forcing the cleaning fluid through a spray nozzle with a pressure drop less than 210 Bar.